

Displacement sensor amplifier unit





# Amplifier unit that can perform calculations and CC-Link communication

Up to two displacement sensors can be connected Features a clear organic EL display Can also display in Japanese



### Selection table

Туре	Supported displacement sensor	Supported communication unit	Master/slave unit	Model
Displacement sensor amplifier unit	•CD22 series (RS-485 type) •CDX series • <b>P.438, P.464</b>	CC-Link communication unit UC1-CL11 (only for CD22 series) • P.118	Master unit	CDA-M
			Slave unit	CDA-S

# **Options/Accessories**

Displacement sensor/amplifier connection cable



DSL-1204-G02M Cable length: 2 m Robot cable specification

#### **Extension cable**

#### DSL-0804-G02M

Cable length: 2 m Cable length between sensor and amplifier can be extended to 4 m by connecting to DSL-1204-G02M. Robot cable specification



Cable length: 5 m Cable length between sensor and amplifier can be extended to 7 m by connecting to DSL-1204-G02M. Robot cable specification



## **Features**

#### **Calculation function**

Up to two can be connected to the CDA series. High-speed calculation of thickness and height differences can be performed with one amplifier unit.

#### **CC-Link connection**

By connecting to UC1 series communication unit, CD22 series can

be connected to CC-Link.

Monitoring of measurement values and remote monitoring of sensors can be performed easily.



Sensors can be operated through CC-Link communication using Mitsubishi Electric's GX Works2 which supports Mitsubishi iQ Sensor Solution (iQSS).



 Model information and no. of connected units are detected

23-988 25-0-8 15-96 4 1683 C 16809

automatically · Reading, writing, monitoring and backing up of set sensor values is possible

CDX	
CDA	
LS	
CD22	
CD33	
CD4	
CD5	
UQ1-01	
1101-02	

# System configuration

### **CDA** only

When using CDA as stand-alone



#### When CDA is linked



#### CDA+UC1 (Not for CDX)

Thickness

When using CDA as stand-alone



#### CDA + UC1 + D3RF (Not for CDX)

1000



Photoelectric

Sensors

Specialized

Photoelectric Sensors

Laser Displacement Sensors

Photoelectric Sensors

Specialized Photoelectric Sensors

Laser Displacement Sensors

CD5 UQ1-01 UQ1-02

## Displacement sensor amplifier unit CDA series

## **Specifications**

Model		adal	Master unit	Slave unit	
		bdei	CDA-M	CDA-S	
Displacement sensor		No. of connectable units	Max. 2 units of CD22 or CDX series (Connectable model of CD22 series: CD22-DD-485M12		
		Connection type	Amplifier side: M8, 4-pin connector / Sensor side: M12, 4-pin connector		
No. of connectable units (including master unit)		ectable units aster unit)	Max. 8 units		
ing	Supply voltage		12 to 24 VDC ±10%, including 10% ripple (p-p)	Supplied from master unit or UC1 series*	
Current consumption		consumption	100 mA or less (at 12 VDC)		
olay	े Dot matrix display		Organic EL panel 128 × 96 pixels		
Indicators		ors	Power indicator: Red/Green, Output indicator 1 to 3: Orange		
Analog current output		nt output	4 to 20 mA/F.S. Load impedance 300 $\Omega$ or less		
Control output		ut	NPN/PNP open collector (selectable by setting) 3 output max. 100 mA / 30 VDC, Residual voltage: 1.8 V or less		
External input		ıt	2 inputs		
Connection type		ype	Cable type: Cable: 2 m (ø5.8)		
	Ambient te	mperature/humidity	-20 to +50°C / 35 to 85% RH (no freezing or condensation)		
ntal	Storage temperature/humidity		-20 to +60°C / 35 to 85% RH (no freezing or condensation)		
and	Vibration resistance		10 to 55 Hz; double amplitude 1.5 mm; 2 hours in each of the X, Y, and Z directions		
Environ resist	Shock resistance		Approximately 50 G (500 m/s <sup>2</sup> ), 3 times in each of the X, Y, and Z directions		
	Protection circuit		Reverse connection protection		
	Degree of protection		IEC standard, IP50		
Material			Polycarbonate		
Weight			170 g		

\*Supply 12 to 24 VDC to power wires (brown/blue) to be used for the supply voltage of the CD22 series.

# I/O circuit diagram

With the NPN setting





# 453





DSL-0804-G05M: L = 5000